

### 5.3.2 CANOLA VARIETY TRIAL – (CAMPBELL TOWN, TAS)

#### Abstract:

Yield trials were conducted on conventional, triazine-tolerant and Clearfield canola. The results clearly indicate the need for ongoing variety testing as new lines are being developed. The yields of the better performing varieties suggest material is available for Tasmanian growers for potentially good yields.

**Researcher:** Brian Field

#### Acknowledgements:

Simon Munford (DPIWE), Robert Howard (TIAR)

#### Funding Organization:

DPIWE, GRDC

#### Location:

"Riccarton", Campbell Town, Tasmania

**Growing Season Rainfall (April-Nov):** 324mm.

**Sowing Date:** 7 May 2004

**Sowing Rate:** 5kg/ha

**Harvest date:** 22 Dec 2004

#### Background/Objectives:

Canola is being adopted by more growers as a major component of cropping rotations. With the on-going development of new varieties by breeding programs new varieties need to be evaluated to ensure Tasmanian growers are aware of material that is superior to existing varieties. Tasmanian growers are also showing a preference to TT and Clearfield canola due to the broader weed control options from these lines. Yield trials were conducted on conventional, TT and Clearfield canola.

#### Methodology:

Each trial layout was 3 replicates in randomised blocks. Weed control was applied as required for each trial, and all other operations were conducted over each trial. 17 conventional, seven TT, and 5 Clearfield varieties were evaluated. In total, 16 pre-release breeding lines were included for evaluation.

**Fertilizer:** 9-8-13-9 + B

**Rate:** 150kg/ha

**Topdressing:** Urea

**Rate:** 220kg/ha

#### Results and Discussion:

The results in Table 1 demonstrate new varieties are being developed suitable to Tasmania. In the conventional trial 3 new lines performed comparably with Skipton, the highest yielding variety. Interestingly, Outback, which has been the most consistent performing variety in trials in recent years, yielded significantly lower than the higher yielding lines. This suggests that late November rain has potentially favoured some varieties.

In contrast to the conventional trial, Grace, which has been the most consistent TT for a number of years, yielded highest in the TT trial. Two new breeder lines performed comparably to Grace. The new clearfield line 46C76 yielded the highest of the clearfield varieties tested and significantly higher than only two of the other four lines.



## LIDGERWOOD SEEDS PTY LTD

ACN 006 785 226 ABN 70 833 721 233

3810 Cape Otway Road Birregurra Vic 3242

Phone 03 5236 2015 Fax 03 5236 2383

Email [lidseed@gsat.net.au](mailto:lidseed@gsat.net.au)

*Member of Seed Industry Association of Australia*

**Seed Producers, Merchants & Processors**

**Seed Cleaning – Drying – Export Packing**

**Suppliers of Pasture, Cereal & Oilseeds**

**PROUD SUPPORTERS OF SOUTHERN FARMING SYSTEMS**



**Table 1: Yield Results of Conventional, TT and Clearfield Trials.****Note: Test Lines are Coded with Letter**

Conventional Trial	
Variety	Yield (t/ha)
SKIPTON	3.70
44C11	3.67
E	3.67
B	3.46
K	3.38
SAPPHIRE	3.28
RAINBOW	3.24
F	3.23
J	3.21
SPECTRUM	3.18
I	3.16
D	3.14
OUTBACK	3.12
G	3.12
C	3.00
H	2.92
A	2.37
<b>Trial Mean</b>	<b>3.23</b>
<b>LSD</b>	<b>0.327</b>
<b>CV</b>	<b>6.1</b>

Triazine Tolerant Trial	
Variety	Yield (t/ha)
GRACE	3.04
M	2.99
O	2.94
BEACON	2.52
STUBBY	2.34
L	2.20
N	1.93
<b>Trial Mean</b>	<b>2.57</b>
<b>LSD</b>	<b>0.494</b>
<b>CV</b>	<b>10.8</b>

Clearfield Trial	
Variety	Yield (t/ha)
46C76	3.51
45C75	3.30
P	2.94
44C73	2.80
Surpass603cl	2.54
<b>Trial Mean</b>	<b>3.02</b>
<b>LSD</b>	<b>0.625</b>
<b>CV</b>	<b>11.0</b>

**Conclusions:**

The results clearly indicate the need for ongoing variety testing as new lines are being developed. More varieties are being developed that are suitable to Tasmania's climate and growing conditions, however, on the basis of one trial and site most new lines evaluated cannot be excluded from further testing. The yields of the better performing varieties suggest material is available for Tasmanian growers for potentially good yields.

# PlantTech



*Bringing seed technology to life*

PlantTech is a major seed company responsible for the marketing of a range of leading cereals, pulses, oilseeds, forages and pasture varieties throughout Australia.

*We are totally focused and committed to the introduction of cutting edge technologies such as:*

- 1) Agristrike coating for pasture legumes.
- 2) Highly rust resistant cereal varieties such as Ruby, Pugsley and Shenton.
- 3) Quality options allowing farmers the choice of premium maximum performance seed for bulk up or commercial high performance seed for grain production.
- 4) e-EPR Online End Point Royalty Management System eliminating the need to fill in and sign seed licence agreements each time you purchase a PlantTech EPR variety.
- 5) Close working relationships with plant breeders across Australia enabling the commercial release of genetically superior varieties.

**For further information please contact:**

**Customer Service on: 1800 112 400, or**

**Vic/Tas Sales Manager Adam Archibald on 0428 134 796**

**aarchibald@planttech.com.au, or**

**www.planttech.com.au**

